The loan was signed on September 21, 2006. The proceeds of the loan shall be utilized to part finance the capital expenditure of Kahalgaon Super Thermal Power Project Stage-II (1500 MW), Sipat STPP Stage-I (1980 MW) and Sipat STPP Stage-II (1000 MW). The loan is extended without any back-up security in the form of Govt. of India Guarantee. The loan has two tranche A & B. Tranche A of the loan has a maturity of 11 years and Tranche B has a maturity of 7 years. The laon has a provision of payment of interest on floating rate basis. The drawal under the loan have commenced.

(c) As per the policy guidelines of the Central Electricity Authority for Renovation and Modernization activities of power plants at completion of one lakh and two lakh hours of operation, MTPC has carried out/has planned renovation and modernization of NTPC units at its power projects, Talcher Thermal Power Station located at Talcher in Orissa andTalcher Super Thermal Power Station located at Talcher Kaniha in Orissa.

After take over of Talcher Thermal Power Station from Orissa State Electricity Board (OSEB) in 1995, NTPC has taken up Renovation and Modernization works at Talcher Thermal Power Station (460 MW) as agreed between GRIDCO & NTPC. The Plant Load Factor of Talcher Thermal has improved and reached 80% plus. Further Renovation and Modernization works at Talcher Thermal Power Station shall be taken up during XII Plan Period. Renovation and Modernization works at Talcher Kaniha Stage-I (1000 MW) shall be taken up during XI Plan Period.

Status of Hydel Power Projects

†1268. SHRI JAI PARKASH AGGARWAL:
DR. PRABHA THAKUR:

Will the Minister of POWER be pleased to state:

(a) the total power generation capacity in megawatts of the Hydel projects in various States as on date;

(b) the names of the hydel projects cleared by the Centre during the current as well previous Five Years Plans, State-wise;

†Original notice of the question was received in Hindi.

(c) the names of domestic as well as foreign firms which have invested in these projects;

(d) the names of Hydel projects for which proposals have been received during current as well previous Five Year Plans, State-wise;

(e) the action taken by the Centre on each of these proposals; and

(f) the reasons for their pendency?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) The total power generation capacity of hydel projects in the country as on 31.10.2006 is 33,599.77 MW. The State-wise deatails are given in Statement-I. (*See* below)

(b) to (f) During the current (10th) and previous (9th) Five Year Plans, 82 hydro electric (H.E.) Schemes with an aggregate installed capacity of 30,617.6 MW were received in Central Electricity Authority (CEA) for techno-economic clearance/concurrence as per details given in Statement-II. (*See* below)

Out of 82 schemes, 45 schemes aggregating to installed capacity of 16,967 MW have been cleared / concurred by CEA. Of these, two schemes with installed capacity of 590 MW have been commissioned and 22 schemes with installed capacity of 8,381 MW are under implementation whereas 21 H.E. schemes with aggregate installed capacity of 7,996 MW cleared / concurred by CEA are awaiting investment approval by the concerned Government / financial closure. The details of these schemes along with the names of the agencies investing in these schemes are given Statements-III (*See* below).

37 H.E. Schemes with aggregate installed capacity of 13,650.6 MW were returned to the project authorities for resubmission after tying up all inputs / clearances and compliance of comments of CEA Central Water Commission, Geological Survey of India etc. The details of these schemes are given at Statement-IV. (*See* below) The project authorities have not resubmitted these schemes to CEA for further clearance/concurrence.

Statement-I

State-wise Hydro electric Generating Capacity as on 31.10.2006

Sl.No.	State/U.Ts.	Installed capacity in Mega Watts (MW)
1.	Haryana	946.64
2.	Himachal Pradesh	793.00
3.	Jammu & Kashmir	309.15
4.	Punjab	2472.72
5.	Rajasthan	1008.84
6.	Uttar Pradesh	518.60
7.	Uttaranchal	1386.93
8.	Chandigarh	0.00
9.	Delhi	0.00
	Central Sector NR	4608.00
	Sub-Total (NR)	**12045.88**
10.	Gujarat	777.00
11.	Madhya Pradesh	1760.67
12.	Chhattisgarh	125.00
13.	Maharashtra	3278.66
14.	Goa	0.00
15.	D & N Haveli	0.00
16.	Daman & Diu	0.00
	Central Sector WR	1000.00
	Sub-total (WR)	**6941.33**
17.	Andhra Pradesh	3586.36
18.	Karnataka	3427.90
19.	Kerala	1807.60
20.	Tamil Nadu	2175.85
21.	Lakshadweep	0.00
22.	Pondicherry	0.00
	Central Sector	0.00
	Sub-Total (SR)	**10997.71**

Sl.No.	State/U.Ts.	Installed capacity in Mega Watts
23.	Bihar	44.90
24.	Jharkhand	130.00
25.	Orissa	1923.93
26.	West Bengal	161.70
27.	A.&N. Islands	5.25
28.	Sikkim	32.00
	Central Sector ER including DVC	204.00
	Sub-Total (ER)	**2501.78**
29.	Assam	2.00
30.	Manipur	1.50
31.	Meghalaya	185.52
32.	Nagaland	25.50
33.	Tripura	16.00
34.	Arunachal Pradesh	18.50
35.	Mizoram	4.05
	Central Sector NER	860.00
	Sub-Total (N ER)	**1113.07**
	Central Sector All India	6672.00
	Total All India	**33599.77**

Statement-II

list of hydro electric schemes received in CEA during 9th and 10th five year plans

Sl. No.	Schemes	State	Installed Capacity (MW)
Previous Five Year Plan (9th Plan)			
1	Pulichintalla	Arunachal Pradesh	60
2.	Ranganadi St-II	Arunachal Pradesh	180
3.	Lower Kopili	Assam	150
4.	Dudhsagar	Goa	30
5.	Chamera St-II	Himachal Pradesh	300
6.	Largi	Himachal Pradesh	126
7.	Parbati St-II	Himachal Pradesh	800
8.	Kol Dam	Himachal Pradesh	800
9.	Allain Duhangan	Himachal Pradesh	192
10.	Dhamwari Sunda	Himachal Pradesh	70

Sl. No.	Schemes	State	Installed Capacity (MW)
11.	Renuka Dam	Himachal Pradesh	40
12.	Kuther	Himachal Pradesh	260
13.	Kanhar MPP	Jharkhand	300
14.	Shankh St-II	Jharkhand	186
15.	Almatti	Karnataka	290
16.	Loktak D/S	Manipur	90
17.	Malshej Ghat PSS	Maharashtra	600
18.	Humbarli PSS	Maharashtra	400
19.	Myntdu	Meghalaya	84
20.	Binauda	Madhya Pradesh	600
21.	Mara PSS	Madhya Pradesh	450
22.	Kanhan MPP	Madhya Pradesh	90
23.	Tuirial	Mizoram	60
24.	Tuivai	Mizoram	210
25.	Bairabi	Mizoram	80
26.	Kolodyne St-I	Mizoram	120
27.	Balimela Extn (U-7&8)	Orissa	150
28.	Mukerian St-II	Punjab	12.5
29.	UBDC-III (Ravi U-IV)	Punjab	75
30.	Shahpur Kandi Extn.	Punjab	55.5
31.	Teesta St-V	Sikkim	510
32.	Maneri Bhali St-II	Uttar Pradesh	304
33.	Shrinagar	Uttar Pradesh	330
34.	Kishau	Uttaranchal	600
35.	Lakhwar Vyasi	Uttaranchal	420
36.	Tiuni Plasu	Uttaranchal	42
	Total 9th Plan	**36**	**9067**
Current Five Year Plan (10th Plan)			
37.	Subansiri Lower	Arunachal Pradesh	2000
38.	Ranganadi St-II	Arunachal Pradesh	130
39.	Siang Middle	Arunachal Pradesh	1000
40.	Pare	Arunachal Pradesh	110
41.	Dibang	Arunachal Pradesh	3000
42.	Taylong	Arunachal Pradesh	160
43.	Dummugudem	Andhra Pradesh	319.6
44.	Lower Jurala	Andhra Pradesh	240
45.	Matnar	Chhattisgarh	60
46.	Uhl St-III	Himachal Pradesh	100

Sl. No.	Schemes	State	Installed Capacity (MW)
47.	Karcham Wangtoo	Himachal Pradesh	1000
48	Chamera St-III	Himachal Pradesh	231
49.	Parbati St-III	Himachal Pradesh	520
50.	Rampur	Himachal Pradesh	412
51.	Sewa Stage II	Jammu & Kashmir	120
52.	Uri-II	Jammu & Kashmir	240
53.	Nimoo Bazgo	Jammu & Kashmir	45
54.	Chutak	Jammu & Kashmir	44
55.	Kishanganga	Jammu & Kashmir	330
56.	Kishanganga	Jammu & Kashmir	330
57.	Pakal Dul	Jammu & Kashmir	1000
58.	Sawalkot	Jammu & Kashmir	1200
59.	Athirappilly	Kerala	163
60.	Mahadayi	Karnataka	320
61.	Gundia	Karnataka	400
62.	Loktak D/S	Manipur	66
63.	Tipaimukh	Manipur	1500
64.	Sone	Madhya Pradesh	100
65.	Jalaput Dam Toe	Orissa/Andhra Pradesh	18
66.	Teesta St-III	Sikkim	1200
67.	Teesta-VI	Sikkim	500
68.	Panan	Sikkim	280
69.	Rangit St-IV	Sikkim	120
70.	Kundah	Tamil Nadu	500
71.	Loharinagpala	Uttaranchal	600
72	Tapoovan Vishnugad	Uttaranchal	520
73.	Lata Tapovan	Uttaranchal	171
74.	Vishnugad Pipalkoti	Uttaranchal	444
75.	Kotlibhel St-IA	Uttaranchal	195
76.	Kotlibhel St-IB	Uttaranchal	320
77.	Kotlibhel St-II	Uttaranchal	530
78.	Pala Maneri	Uttaranchal	480
79.	Vyasi	Uttaranchal	120
80.	Teesta LD St-III	West Bengal	132
81.	Teesta LD St-IV	West Bengal	160
82.	Rammam St-III	West Bangal	120
	Total 10th Plan	**46**	**21550.56**
	Grand Total	**82**	**30617.56**

Statement-III

List of Hydro Electric Schemes sanctioned by Government and Commissioned/Under Implementation

Sl. No.	Name of Scheme	Sector	Total Cap. MW	State	Name of Agency invested in the project	Status
1	2	3	4	5	6	7
Previous Five Year Plan (9th Plan):						
1.	Chamera St-II	Central	300	Himachal Pradesh	NHPC/Union Govt.	Commissioned.
2.	Largi	State	126	Himachal Pradesh	H.P. State Govt.	Under implementation.
3.	Parbati St-II	Central	800	Himachal Pradesh	NHPC/Union Govt.	Under implementation.
4.	Kol Dam	Central	800	Himachal Pradesh	NTPC	Under implementation.
5.	Allain Duhangan	Private	192	Himachal Pradesh	M/s AD Hydro Power Ltd.	Under implementation.
6.	Dhamwari Sunda	Private	70	Himachal Pradesh	M/s Dhamwari Power Co. Pvt. Ltd.	Financial closure is yet to be achieved.
7.	Almatti	State	290	Karnataka	KPCL/Karnataka State Govt.	Commissioned.
8.	Loktak D/S	Central	90	Manipur	NHPC/Union Govt.	Scheme revised as ROR for 66 MW/ PIB held on 23.11.1996.
9.	Myntdu	State	84	Meghalaya	Meghalaya State Govt	Under implementation.
10.	Tuirial	Central	60	Mizoram	NEEPCO/Union Govt.	Under implementation.

1	2	3	4	5	6	7
11.	Tuivai	Central	210	Mizoram	NEEPCO/Union Govt.	Yet to be sanctioned by the Central Govt.
12.	Bairabi	State	80	Mizoram	Mizoram State Govt.	State Govt. approval awaited.
13.	Balimela Extn. (U-7&8)	State	150	Orissa	Orissa State Govt.	Under implementation.
14.	Teesta St-V	Central	510	Sikkim	NHPC/Union Govt.	Under implementation.
15.	Maneri Bhali St-II	State	304	Uttar Pradesh	UJNL/Uttaranchal State Govt.	Under implementation.
16.	Shrinagar	Private	330	Uttar Pradesh	M/s Alaknanda Power Company Ltd.	Financial closure is yet to be achieved.
	Total (9th Plan):	**16**	**4396**			
Current Five Year Plan (10th Plan-Up to 20.11.2006):						
17.	Subansiri Lower	Central	2000	Arunachal Pradesh	NHPC/Union Govt.	Under implementation.
18.	Matnar	State	60	Chhattisgarh	Chhattisgarh State Govt.	Environment & Forest clearance awaited.
19.	Uhl St-III	State	100	Himachal Pradesh	H.P. State Govt.	Under implementation.
20	Karcham Wangtoo	Private	1000	Himachal Pradesh	M/s Jaypee Karcham Hydro Co. Ltd.	Under implementation.

21.	Chamera St-III	Central	231	Himachal Pradesh	NHPC-Union Govt.	Under implementation.
22.	Parbati St-III	Central	520	Himachal Pradesh	NHPC/Union Govt.	Under implementation.
23.	Rampur	Central	412	Himachal Pradesh	SJVNL	PIB held on 25.7.06. Yet to be sanctioned by the Central Govt.
24.	Sewa Stage II	Central	120	Jammu & Kashmir	NHPC/Union Govt.	Under implementation.
25.	Uri-II	Central	240	Jammu & Kashmir	NHPC/Union Govt.	Under implementation.
26.	Nimoo Bazgo	Central	45	Jammu & Kashmir	NHPC/Union Govt.	Under implementation.
27.	Chutak	Central	44	Jammu & Kashmir	NHPC/Union Govt.	Under implementation.
28.	Kishanganga	Central	330	Jammu & Kashmir	NHPC/Union Govt.	Scheme revised as ROR.
29.	Kishanganga	Central	330	Jammu & Kashmir	NHPC/Union Govt.	PIB held on 25.7.06. Yet to be sanctioned by the Central Govt.
30.	Pakal Dul	Central	1000	Jammu & Kashmir	NHPC/Union Govt.	Yet to be sanctioned by the Central Govt.
31.	Athirappilly	State	163	Kerala	Kerala State Govt.	Under implementation.

1	2	3	4	5	6	7
32.	Loktak D/S	Central	66	Manipur	NHPC/Union Govt.	PIB held on 23.11.06. Yet to be sanctioned by the Central Govt.
33.	Tipaimukh	Central	1500	Manipur	NEEPCO	PIB held on 15.10.05 & 31.01.06. Yet to be sanctioned by the Central Govt.
34.	Jalaput Dam Toe Private		18	Orissa/Andhra Pradesh	M/s Orissa Power Consortium Ltd.	Financial closure is Yet to be achieved.
35.	Teesta St-III	Private	1200	Sikkim	M/s Teesta Urja Ltd.	Financial closure is yet to be achieved.
36.	Loharinagpala	Central	600	Uttaranchal	NTPC	Under implementation.
37.	Tapovan Vishnugad	Central	520	Uttaranchal	NTPC	Investment approval by NTPC Board awaited.
38.	Lata Tapovan	Central	171	Uttaranchal	NTPC	Investment approval by NTPC Board awaited.
39.	Vishnugad Pipalkoti	Central	444	Uttaranchal	THDC/Union Govt. & UP State Govt.	Yet to be sanctioned by the Central Govt.
40.	Kotlibhel St-IA	Central	195	Uttaranchal	NHPC/Union Govt.	Yet to be sanctioned by the Central Govt
41.	Kotlibhel St-IB	Central	320	Uttaranchal	NHPC/Union Govt.	Yet to be sanctioned by the Central Govt

42.	Kotlibhel St-II	Central	530	Uttaranchal	NHPC/Union Govt.	Yet to be sanctioned by the Central Govt.
43.	Teesta LD St-III	Central	132	West Bengal	NHPC/Union Govt.	Under implementation.
44.	Teesta LD St-IV	Central	160	West Bengal	NHPC/Union Govt.	Under implementation.
45.	Rammam St-III	Central	120	West Bengal	NTPC	Investment approval by NTPC Board awaited
	Total 10th Plan	**29**	**12571**			
	Grand Total	**45**	**16967**			

Statement-IV

List of Hydro Electric Schemes returned to project authorities for resubmission after tying up all inputs/clearances

Sl. No.	Schemes	State	Sector	Inst. Cap. (MW)	Date of Receipt of DPR	Date of Return of DPR
1	2	3	4	5	6	7
9th Plan:						
1.	Mukerian St-II	Punjab	State	12.5	12/97	6/99
2.	UBDC-III(Ravi U-IV)	Punjab	State	75	6/99	7/99
3.	Shahpur Kandi Extn.	Punjab	State	55.5	1/2001	11/2001
4.	Renuka Dam	Himachal Pradesh	State	40	7/98	9/99
5.	Kuther	Himachal Pradesh	State	260	12/98	2/2001
6.	Kishau	Uttaranchal	State	600	6/98	7/99
7.	Lakhwar Vyasi	Uttaranchal	State	420	11/98	7/99
8.	Tiuni Plasu	Uttaranchal	State	42	7/2000	8/2000
9.	Binauda	Madhya Pradesh	State	600	1/98	1/99
10.	Mara PSS	Madhya Pradesh	State	450	12/97	1/99
11.	Kanhan MPP	Madhya Pradesh	State	90	3/98	8/99
12.	Malshej Ghat PSS	Maharashtra	State	600	12/97	1/99
13.	Humbarli PSS	Maharashtra	State	400	9/99	7/2000
14.	Dudhsagar	Goa	State	30	—	—
15.	Pulichintalla	Andhra Pradesh	State	60	9/97	3/99
16.	Kanhar MPP	Jharkhand	State	300	5/99	7/99
17	Shankh St-II	Jharkhand	State	186	12/99	1/2000
18	Ranganadi St-II	Arunachal Pradesh	Central	180	4/98	6/98

1	2	3	4	5	6	7
19.	Lower Kopili	Assam	Central	150	6/97	7/97
20.	Kolodyne St-I	Mizoram	State	120	6/2000	6/2001
	Total (9th Plan):	**20**		**4671**		
10th Plan—As on 20-11-2006:						
21.	Sawalkot	Jammu & Kashmir	State	1200	5/2006	5/2006
22.	Pala Maneri	Uttaranchal	State	480	7/05	7/05
23.	Vyasi	Uttaranchal	Central	120	08/06	08/06
24.	Sone	Madhya Pradesh	State	100	3/2003	4/2003
25.	Dummugudem	Andhra Pradesh	State	319.6	3/06	3/06&8/06
26.	Lower Jurala	Andhra Pradesh	State	240	7/06	7/06
27.	Mahadayi	Karnataka	State	320	7/2002	8/2002
28.	Gundia	Karnataka	State	400	7/06	8/06
29.	Kundah	Tamil Nadu	State	500	11/06	11/06
30.	Testa-IV	Sikkim	Private	500	3/06	3/06
31.	Panan	Sikkim	Private	280	10/06	11/06
32.	Rangit St-IV	Sikkim	Private	120	11/06	11/06
33.	Ranganadi St-II	Arunachal Pradesh	Central	130	4/06	4/06
34.	Siang Middle	Arunachal Pradesh	Central	1000	09/2003	09/2003
35.	Pare	Arunachal Pradesh	Central	110	12/2005	03/2006
36.	Dibang	Arunachal Pradesh	Central	3000	12/05	07/2006
37.	Talong	Arunachal Pradesh	Central	160	4/06	06/2006
	Total (10th Plan):	**17**		**8979.56**		
	Grand Total:	**37**		**13650.6**		